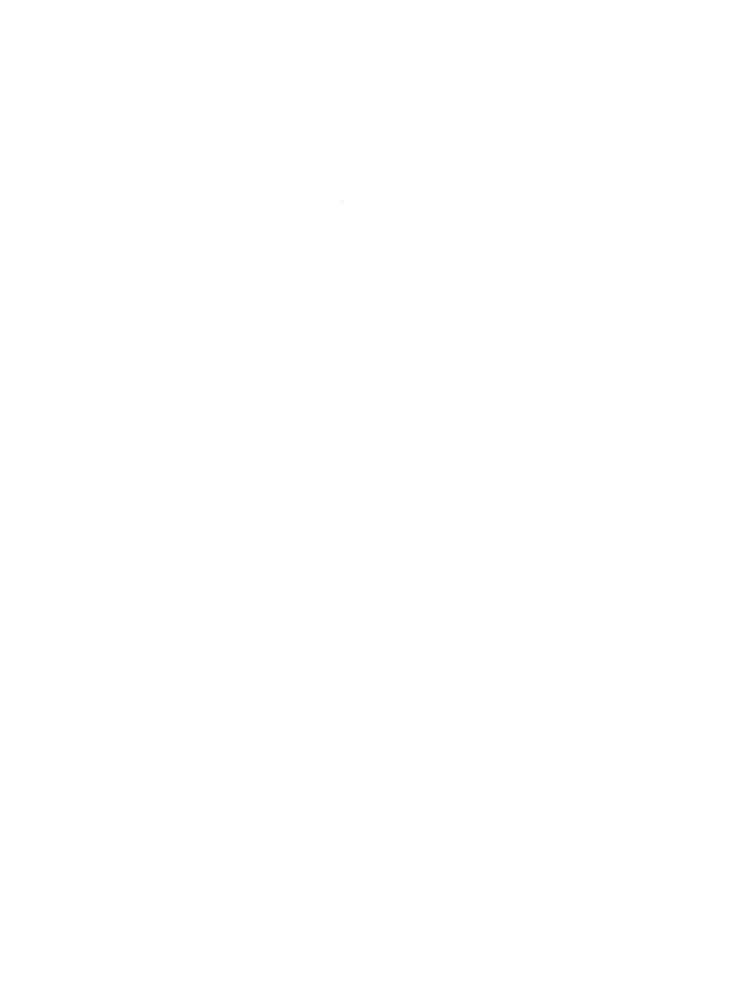
Montana State Library



Industrial Horizons



Vol. 4., No. 2.

February, 1959

Sens Dubliepan

Natural Gas Plant Uses By-Free

The following article is reprinted from the July, 1958, issue of "The Mondakonian," published by Montana Dakota Utilities Co. The article was written by Thomas A. Gwynn, MDU geologist.

The Texas Natural Gasoline Corp. plant at the south end of the Pine Unit oil field in Fallon County, Montana, was completed and went on stream in December, 1956.

This installation has made it possible to conserve a valuable by-product of the oil production in the Pine Unit. Cabin Creek Unit. and the Wills Creek Field. Gas previously flared is now processed. All liquid hydrocarbons are extracted and the resulting dry pipeline gas is sold to MDU. The liquid hydrocarbons extracted in the form of propane, butane, and natural gasoline are marketed primarily in the local area.

Gathering System

The gathering system for the gas associated with deep oil production in the three fields is relatively simple because of the elongated shape of the structure. Only one trunk line is needed to gather the gas production from all three areas. The gatherine system was installed at a depth of six feet to prevent freezing, and the line was carefully constructed with drips located at the low points on the line.

A fully automatic booster compressor ration takes gas from the Cabin Crees, area and delivers it through an eight-mile delivery line to the plant.

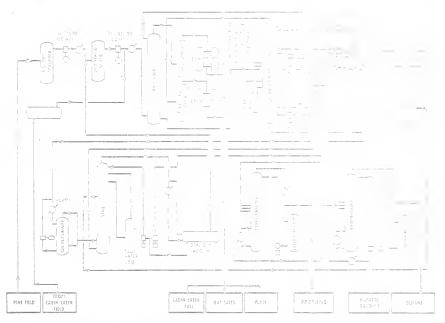
Plant Operations

Extreme weather conditions encountered in this area have presented numerous problems both in starting up the plant and in maintaining operations. It was necessary to thoroughly winterize the plant

The entire process section of the gasoline plant, including all vessels except the bsorber, is housed in one building. The other buildings include the compressor building, suction scrubber house, cooling tower, pump house, boiler house, louding pump house and the fire pump, and emergency generator house. It has been necessary to install extensive gas delivitation facilities to prevent freeze up of order gas lines.

Process Cycles

The process is a conventional of absorption-rich oil de-ethanizer cycle with totally condensed still overhead and cascade fractionation. Steam is the prime source of heat supplemented with a direct-fired still pre-heater. The steam balance is so made that exhaust steam from the process pumps is used for oil



Pictured above is a simplified flow chart of the Wines Material Granding Corp., plant north of Baker. The plant addizes by spracing gases homerly flored. Final products are propose, buttone and natural gas. The plant is the only such installation in Montane.

Pictured below is a view of the Tenas Natural Gescline Compunional Highly automated, the installation requires only traited men.

The accompanying chart should the field goes inrough until the fine in are propose, buttone, matter gos for, as in the Montana, Sourch Dakon, Sourch Standing, 1998, for matter field.

stripping fractionator reboilers, and general utility service.

The plant is designed for open to with a minimum number of persons.

Time the control of t

10 m⁶ 1.7 ± 1.7 ± 1.2

Report Shows Potential of Forest Industries

The most comprehensive survey of Montana's potential in the forest products industry ever written has just been published by the U. S. Forest Service and Montana's Congressional Delegation.

Intrace "I " U . and Decalement Col-Intrace "In" In a red Development of Montana's Intro-er Resources, the strike as prepared in the first Remord Interested Charles In Interested Remord Interested Charles In Interested Remord Interested Interest

Major Part of Aconomy

Sparred to the about the student cess of all adeas because its interest when the sees. Montain to be to the about the because of a decoration of a celebration of according to estimates in the report, the forest proceeds undestry now is providing around 8 source full-time tobs, representing 840 m floor in a normal payable. The cost of a second representations of the second representations are the second representations. roll. Hese icss as highing its production of time of produces sexually, pole productors. Christmas trees. Another 1-600 jobs some 88 million as year in sages, as de yed from securiary pro-

Thus, the Lorest Service estimates that Mortaga's timber resistices contributed about 10,000 mars, ears of employment of 886 million in wages to our economy

Four Times Current Employment

payroll at present wage rates. In other at least 42,000 man-years and around

The Forest Service report tells how this

- o 1. Full use of the resources is contingent upon a variety of outlets for tim-
- 9 2. Integration of the lumber industry is necessary-i. e., every process from primary sawmills, through pulp and paper plants, to hardboard and chemical plants,
- 9 3. Montana's vasa reservoirs of pulpwood are as yet virtually untapped,

- 9 4. Fiberhoard plants will probably locate in areas of high salvage volumeareas of existing sawnill concentration, No. 1 in Xmas Trees
- 5. Christmas tree production from Montana leads the nation-and will continue to do so.
- . 6. From a forestry standpoint, pulpmills in conjunction with other woodusing plants, are the solution to many vexing problems.
- 7. A key to solving the problem of blocks of timber separated by distance and plains, is probably the establishment of an integrated series of plants, including veneer, poles, pulp and fiberboard, at a site centrally located.
- . 8. The establishment of pulpmiils on the upper Vilssouri and upper Yellowstone Rivers is considered possible.

Lumber Production Doubled

- . 9. Montana lumber production has more than doubled since Veorld War II.
- 10. Considerable attention has been given to the possibility of chemical use ef Montana timber-i. e., arabogalactiu from larch, and wood molasses from youd waste for livestock-feed supplements.
- 11. Better logging equipment is needed.
- 12. Overstocking and understocking of timber lands makes them unproductive.
- 13. Montana's forest roads system is inadequate-unless roads are built at a rate that keeps pace with salvage, valu-

Production of Forest Products, Sustainable Annual Production, and Percentage of Utilization, Montana, 1957

	West	ern Montan	Eastern Slope Area			Total Montana			
Type of Product	1957 Production	Annual Sustainable Production	Percentage of Utilization	1957 Production	Annual Sustainable Production	Percentage of Utilization	1957 Production	Annual Sustainable Production	Percentage of Utilization
Lu act and dimension Mom- Veince (dlm) Larve Pea (70° no Jo- Smal Poles (under 20° per Pulpwood (cords) Erberboard (cords) Erme Posts (pes Chemical Wood (cords) Fuelwood (cords) Christinas Tree (mumber)	12,000 8,000 97,000 93,000 4,000 6 270,000 94,000 5,520,000	750,000 80,000 250,000 500,000 1,234,000 200,000 3,600,000 88,000 100,000 5,000,000	108.2 10.0 38.8 18.6 0.32 0 7.5 0 94.0 70.0	$\begin{array}{c} 130,000 \\ 0 \\ 29,000 \\ 91,000 \\ 23,000 \\ 0 \\ 464,000 \\ 0 \\ 42,000 \\ 68,500 \end{array}$	315,000 48,000 200,000 400,000 961,000 160,000 118,000 50,000 1,500,000	41 4 0 14 5 21 3 2 4 0 14 1 0 84 0 4 6	(642,000) (5,000) (126,000) (27,000) (734,000) (134,000) (5,500,500)	1,055,000 128,000 450,000 900,000 2,495,000 3,900,005 200,000 1500,00 6,500,000	50.4 5.3 23.0 20.1 1.2 0 2.4 0 00.6 55.2

Adapted and Trade in S. Schaft, Full Use and Development of Montana's Timber Resources, Sen. Docament Notice and Lindon and Sen. Washington. Government Printing Office, 1959.

Assimated Production of Forest Products, as Compared with Sustainable Annual Production in Montana, 1957

	ESTIMATED 1957 PRODUCTION						ESTIMATED SUSTAINABLE ANNUAL PRODUCTION						
				Eastern Slope Area					Eastern Slope Area				
Тург	of Product		Western Montana	South- western Montana	North- eastern Mont ina	South- eastern Montana	Total All Mentana	Western Montana	South- western Montana	North- eastern Montana	South- eastern Mont ina	Total All Montana	
				g will	250 OOO	0000,44,	947,000 8,000	, att 100 Greenb	5ar (0.50) (0.00) (5.5)		E 10 1	28 0	
1				* OF F	H		1,55 0000	1 () ()					
				- 1000 - 7000	, and 1 and 9	io ((0) ()	2,1000	ambjour Lagarett Sur (tro	1 10 10 10 10 10 10 10 10 10 10 10 10 10				
						n , rdu n	7/3/000 0	3,6 00,000	1 ac i - 10 iar - 900				
						11 1 11 1	1 in ett 1 1 in ett 1						

able timber resources will be lost forever to full economic use. A 1957 report by the Bureau of Public Roads shows that at the current rate of construction, about 23 years will be required to accomplish the more urgently needed portion of the state's forest highway program. This does not take into consideration secondary roads.

Research Needed

• 14. More research is needed on utilization of Montana timber—new products, specialized machinery, a pilot plant to develop methods of producing stockfeed molasses at competitive costs, a barkutilization pilot plant, and improvement of logging methods.

This comprehensive report should be ready by all Montanans concerned with the future economic growth of the state.

NEW AGRICULTURAL MACHINE

The Meyer Ditcher Co. of Fairfield, has expanded its operations to include the new Meyer Land Leveler, according to company officials. The first shipment of the new product left Fairfield in December via company truck for delivery to dealers in Texas and New Mexico.

The original Meyer ditcher was designed and patented by A. L. Meyer, Sr., and has been produced in Fairfield since 1941, along with the Meyer Ditch Filler. More recently, the Land Leveler and Meyer Bale Sweep, which went into production in 1956, were developed. All implements are manufactured in Fairfield and supplied to dealers in Canada and Western States—those areas in which irrigation is nost prevalent.

Alvin Meyer, Jr., and Roy Meyer are partners in the husiness.

BRIEFS . . .

Over 1,800 communities in the United States have incorporated industrial development foundations to buy land and construct buildings for new industries, according to a recent survey of the Office of Area Development, a branch of the U. S. Department of Commerce. In 1959, it is estimated that over \$100 million will be spent by states, communities and private corporations such as utilities for industrial promotion.

The following letter was received in the State Planning Board last month: "It is my desire to find a large source and supply of catnip, or a lot of small sources. Catnip grows wild in many states and could be harvested, or it would be a very profitable project for anyone wishing to grow, harvest and dry. I would appreciate it very much if you would request anyone wishing to grow catnip to write immediately. Yours very truly, David D. Dagmar, President, Kaliko Kitty Catnip, 130 West 49, New York City 19."

DEVELOPMENT CREDIT CORPORATION BILL BEFORE LEGISLATURE

Montana's industrial development efforts may be furthered if a bill now in the 36th Legislative Assembly becomes law.

House Bill 200, introduced by Tonner (D-Flathead), Haines (R-Missoula), Barnard (D-Valley), Broeder (R-Flathead), Cerovski (D-Fergus), Felt (R-Yellow stone), Gerard (R-Madison) and Barrett (D-Liberty) authorizes the incorporation of Development Credit Corporations similar to those operating in several other states where aggressive efforts are being made to expand the industrial base.

Banks Can Pool Risk

The purpose of the legislation is to permit private groups, such as banks and insurance companies, to pool capital resources and spread risks in relatively small amounts to provide long-term risk capital to promising new industries that find themselves unable to meet the loan requirement of commercial banks and other financial institutions. The loans would also be made to existing industries that are expanding.

Since the first state-wide corporation was established in Maine in 1949, twelve other states and the Territory of Hawaii have formed similar organizations. At least fifteen other states, including Montana, are now considering such corporations

The proposal under consideration as HB 200 in Montana was drafted by a committee of bankers and finance experts working with the State Planning Board. It is patterned after the Business Development Corporation of North Carolina, one of the newest of these corporations. However, it is also one of the most successful —at the end of its first 20 months of operation, the North Carolina corporation had approved 51 loans totaling \$4.-019,465 to industries with growth potential. This included loans with \$209,980 in participation by banks. Approximately 61 per cent of the North Carolina loans were made to assist in the construction of new plants or in the expansion of existing plants; 25 per cent for the acquisition of machinery and equipment; 11 per cent for working capital; and three per cent for the payment of existing indebtedness.

Emphasis On Employment

Of most significance, though, is the fact that the loans resulted in direct employment of 5,011 persons in North Carolina manufacturing industries—1,678 people in existing industries, and 3,333 in new jobs. Thus the emphasis in these corporations is on loans to industries which employ people in basic employment—to those industries with growth possibilities.

Though a private corporation which involves no obligation on the part of the State, nor any participation by public funds, the legislation is necessary to permit banks and other financial institutions to become institutional members with a voice in the management of the corporation. The hill thus encourages private groups to form credit corporations "for

the purpose of promoting, developing and advancing the prosperity and welfare of the state." Authority is also given to such corporations to borrow from federal agencies in making industrial expansion loans, such as is possible under the Small Business Act of 1958. They also participate in activities of community industrial development foundations.

SPB Recommendation

The preparation of the legislation resulted from a recommendation of the State Planning Board's Advisory Council to the Board at their October 1, 1958, combined meeting (see INDUSTRIAL HORIZONS, November, 1958). A committee of the Montana Bankers Association has worked with the State Planning Board in studying the legislation's desirability. This committee consisted of A. T. Hibbard, Union Bank and Trust Co., Helena; Fred Heinecke, First National Bank and Trust Co., Helena; and Carl J. Hokanson, Security Bank and Trust Co., Bozeman. The bill was drafted by a committee consisting of Hokanson; Perry Roys, Director of the State Planning Board: Forrest Hedger, Great Falls National Bank and a member of the Advisory Council of the State Planning Board; and Dr. Edward J. Chambers, Associate Professor of Finance at the School of Business, Montana State University, Missoula.

Source of Credit Needed

In recommending that the legislation be drafted, the State Planning Board and Advisory Council agreed that a source of long-term credit for industrial expansion loans (Ioans that are supplemental to, but not competitive with those of existing loan institutions) is necessary. As the Mountain West continues to grow at a rapid rate, Montana must be fully responsive to the industrial opportunities which are coming our way.

If HB200 passes the legislature and becomes law, it will be possible for Montana to establish this type of financial organization to provide needed capital for expanding industries. The organization has been eminently successful in this purpose in other states.

BRIEFS . . .

Two more Montana cities soon will be continuing their city planning programs with the aid of federal funds. Approval of Montana's third and fourth Urban Planning Assistance grants by Housing and Home Finance were announced by Montana's Congressional delegation—on January 31 for the \$11,856 grant to the Great Falls City-County Planning Board, and on February 13 for the \$5,000 grant to the Butte City-County Planning Board. Both communities will match the federal funds, and will use the total budgets to complete their master plans begun last year. The application of Billings for a grant of \$5,561 is still pending in Washington. All three cities were allowed to apply for these grants by passage of the 1957 Urban Planning Legislation.

Industrial Development Efforts In Other States

Recent industrial development activities in other states include:

1RK 17515 1 ARKANSAS I see see to order to a manage and chaose a sector to the more relative to a sector to a manage and chaose a sector to those and the sector to the more reproved to a sector to the contract of the sector to a sector to the sector to a sec

CALIFORNIA-Governor Brown announced he would send to the California legislature a bill to create a State Feo-nomic Development Agency. The governor said a commissioner would be appointed to seek both large and small enterprises for the state. To be paid \$16,500 annually, he would suggest good industrial locations, provide detailed information about the business climate of California communities, study trends in industry, keep a census of business, and "keep a special eye on the needs of small business.

Combined Agency

NIW MIXICO Concernor Bu roughs from edit at a transprotect of his limit strator wor a be to combine the State Lourist Bareau. New Mexico Magazare, a the State Leonomic Development Compassor and one agency Development

State Credit for Industrial Buildings

RHODI ISLAND Members Trave trial Building Astronity, which was an-90 per cent of the call of ridustrial plant brilding projects. The authority

WASHINGTON-Submitted to Washington state lawmakers were proposed constitutional amendments which would authorize the legislature to defer for tenyears tax payments by new or expanding industries; permit cities to excase taxes entirely for such industries; and allow cities to make outright gifts to such ia-

MEETING TO DISCUSS. PLANNING PROBLEMS OF SMALL COMMENHES HELD IN GREAT FALLS

City County Planning Boards was her in Circuit Lalls on Language 31.

Larger Cities Can Asford Planning program among several communities. It was held. Several sources of help were

Consultants

Booklets

INCORPORATIONS UP 23%

Another indication of Montana's growth is shown by the fact that new incorporations in the state in 1958 increased by 22.9 per cent over those in 1957, according to figures from the office of Secretary of State Frank Murray.

A total of 669 new items were meor-porated in 1958, up from 516 in 1957 and 333 in 1951. Of the close, 159 (23,7 (c) cent) were no riprot torms, and 276 -13 per certific, a few domestic profit is (porations organed in trades and serv

cerns and 70 trucking and construction

Many Limibering Firms

Of the new manufacturing corporasawm'll firms in Western Montan a How-

- · Granite Fence Co., of Philipsburg-
- fences and timber products, Aluminum Manufacturing and Distrib-
- uting Co., of Great Halls. Northwest Plating Co., of Billings-
- chrome plating. Western Figure Mealth Equipment Co., Missoula—automotic massage tables.
- · Rapid Waxer Co., Inc., Whitefish-
- machine for waxing skis. Hobson Roller Mills, Inc., Hobsonroller mill and feed business.
- Future Tool Co., Kallspell-make and self tools.
- Holligan Cans, Inc., Butte—fin can shredding plant for processing into copper precipitation maserial.

MONTANA STATE PLANNING BOARD.

Sum Mitchellt 3 o'bline

Reports on business concerns appearing in this publication do not constitute an indomenhant of concern the concern names of its products. Statements in this newsletter do not reflect Board policy unless original action is reported.

U. S. Postage Permit No. 83

Industrial Horzons . . .

State Library extension John. South Ave. + difflesex Missouls,



Montana State Library